

Work Order ID 87141

87141

Page 1

July-11-12 8:55:39 AM

Item ID: D3551-11 Accept ***N900040100*** Setup Start ***NS1***
 Revision ID: Stop ***NS2***
 Item Name: Hook and Loop Tie *25*
 Start Date: 7/10/12 Start Qty: 5.00 **5** Cust Item ID:
 Required Date: 8/03/12 Req'd Qty: 5.00 **5** Customer:
 Reference:

Approvals: Process Plan: *[Signature]* Date: *12-07-12* Tooling: Date: Run Start ***NR1***
 QC: Date: SPC (Y/N): Date: Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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Draw Nbr	Revision Nbr
D3551	Rev A

100 PURCHASING 0.00
100
 Purchasing Memo 0.00
 Purchasing Issue P/O: *17451* Purchase Part Number: 6605K56 Supplier: Mc
 Master Card Certificate of conformity is required

CL 12/07/12 25

110 Receive & Inspect for Damage & Mat'l Certs 0.00
110
 Packaging Memo 0.00
 Packaging Ensure certificate of conformity is attached

[Signature]

120 QC6- Inspect dimensions to drawing 0.00
120
 QC Memo 0.00
 Quality Control

D 16 12/07/12

Comp 125

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

87141

July-11-12 8:55:39 AM

Accept

N900040100

Setup Start *NS1*

Stop *NS2*

Item Name: Hook and Loop Tie

Start Date: 7/10/12 **Start Qty:** 5.00 ***5***

Cust Item ID:

Required Date: 8/03/12 **Req'd Qty:** 5.00 ***5***

Customer:

Reference:

Approvals: **Process Plan:** _____ **Date:** _____ **Tooling:** _____ **Date:** _____

Run Start *NR1*

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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130 Identify as per dwg & Stock Location: ST 246A 0.00

130

Packaging	Memo	0.00
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Packaging

140	QC21- Final Inspection - Work Order Release	0.00
-----	---	------

140

QC	Memo	0.00
----	------	------

Quality Control

$$25x \quad \quad \quad 50$$

$$12-7=5$$

12/1/24

CMF
12-07-23

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

July-11-12 8:55:39 AM

Page 1

Work Order ID: 87141

Parent Item: D3551-11

Parent Item Name: Hook and Loop Tie

Start Date: 7/10/12

Required Date: 8/03/12

Start Qty: 5.00

Required Qty: 5.00

Comments: IPP Rev:A New Issue 06-09-27 JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
6605K56 HOOK AND LOOP TIE		Purchased	No			110	Each	0.0000	1	525		6/27/12	(20)

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

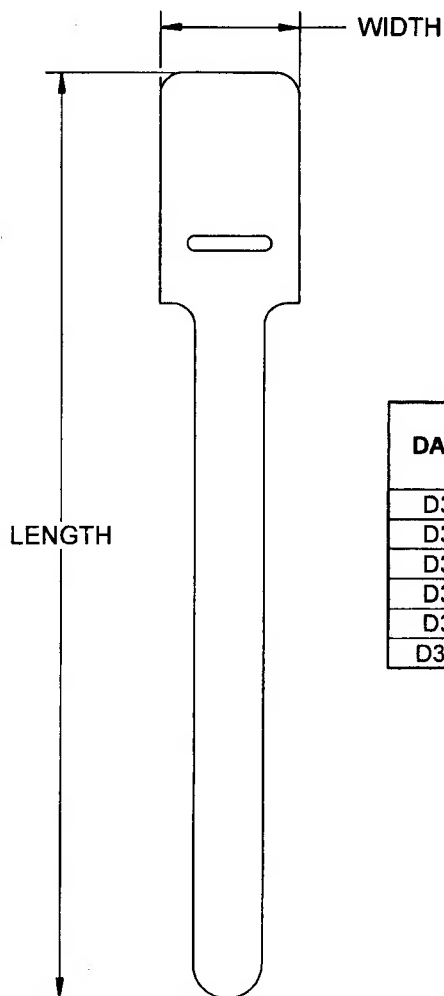
NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries



DESIGN <i>LE</i>	DRAWN BY <i>LE</i>	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED <i>qp</i>	APPROVED <i>[Signature]</i>	DRAWING NO. D3551	REV. A SHEET 1 OF 1
DATE 06.08.28		TITLE HOOK AND LOOP TIE	SCALE NTS
REV A	DATE 06.08.28	DESCRIPTION NEW ISSUE	

SPECIFICATION CONTROL DRAWING



DART P/N	LENGTH (in)	WIDTH (in)	MCMMASTER-CARR P/N	SPEEDTECH P/N
D3551-1	6	1	6605K51	SW.75X6BK889
D3551-3	8	1	6605K52	SW.75X8BK889
D3551-5	11	1	6605K53	SW.75X11BK889
D3551-7	15	1.5	6605K54	SW1.5X15BK889
D3551-9	18	1.5	6605K55	SW1.5X18BK889
D3551-11	24	1.5	6605K56	SW1.5X24BK889

D3551-X HOOK AND LOOP TIE

MATERIAL: BLACK BACK-TO-BACK HOOK AND LOOP MATERIAL, FLAME-RETARDANT NYLON

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NCR: Yes / No

WORK ORDER NON-CONFORMANCE / UPDATE

DQA: _____ Date: _____

QA Closed: _____ Date: _____

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Work Order Update <input type="checkbox"/>	AGAINST DEPARTMENT/PROCESS <table style="width: 100%;"> <tr> <td>Skid-tube <input type="checkbox"/></td> <td>Crosstube <input type="checkbox"/></td> <td>Water Jet <input type="checkbox"/></td> <td>Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table>	Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>	Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>	Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>	Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>	
Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>															
Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>															
Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>															
Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>																

Root Cause	Date	Step	Qty	Description of work order update or Non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Doc/Data <input type="checkbox"/>									
Equip/Tooling <input type="checkbox"/>									
Operator <input type="checkbox"/>									
Material <input type="checkbox"/>									
Setup <input type="checkbox"/>									
Other <input type="checkbox"/>									
Process <input type="checkbox"/>									
Supplier <input type="checkbox"/>									
Training <input type="checkbox"/>									
Unapproved <input type="checkbox"/>									

FAULT CATEGORY

Landing Gear	General	Other
<input type="checkbox"/> Bending	<input type="checkbox"/> Bend	<input type="checkbox"/> Grain
<input type="checkbox"/> Centre Not Concentric to O/S	<input type="checkbox"/> BOM/Route	<input type="checkbox"/> Hardware
<input type="checkbox"/> Cracks	<input type="checkbox"/> Broken/Damaged	<input type="checkbox"/> Inspection Incomplete
<input type="checkbox"/> Crushed/Crimped	<input type="checkbox"/> Burrs	<input type="checkbox"/> Instructions Incomplete/Unclear
<input type="checkbox"/> Cuffs	<input type="checkbox"/> Contamination	<input type="checkbox"/> Maintenance
<input type="checkbox"/> Heat Treat	<input type="checkbox"/> Countersink	<input type="checkbox"/> Mislabeled
<input type="checkbox"/> Inspection Strip in Tube	<input type="checkbox"/> Cut Too Short	<input type="checkbox"/> Misread
<input type="checkbox"/> Ripples in Bend	<input type="checkbox"/> Drill Holes	<input type="checkbox"/> Offset
<input type="checkbox"/> Torque Waves in Extrusion	<input type="checkbox"/> Drawing	<input type="checkbox"/> Out of Calibration
<input type="checkbox"/> Turning Sequence	<input type="checkbox"/> Finish	<input type="checkbox"/> Out of Sequence
<input type="checkbox"/> Wave/Twist in Tube	<input type="checkbox"/> Folio	<input type="checkbox"/> Outside Dimensions
		<input type="checkbox"/> Ovalized
		<input type="checkbox"/> Over/Under tolerance
		<input type="checkbox"/> Part Incorrect
		<input type="checkbox"/> Part Lost/Missing
		<input type="checkbox"/> Part Moved
		<input type="checkbox"/> Positioned Wrong
		<input type="checkbox"/> Power Loss/Surge
		<input type="checkbox"/> Pressure/Forced
		<input type="checkbox"/> Temperature/Cure
		<input type="checkbox"/> Weld
		<input type="checkbox"/> Wrong Stock Pulled
		<input type="checkbox"/> Other _____



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO17451**

Purchase Order Date 7/16/12

PO Print Date 7/17/12

Page Number 1 of 2

Order From :

VU-MCM001

MCMaster-CARR SUPPLY CO,
P.O. BOX 7690
CHICAGO, IL 60680-7690
US

Contact Name		Buyer	Chantal Lavoie
Vendor Phone	330 995 5500	Requisition Nbr	
Vendor Fax	330 995 9600	Tax Resale Nbr	10127-2607
Vendor Account Nbr		Terms	Net 10
		Currency	USD
		FOB	Destination-Collect

Ship To : DART AEROSPACE LTD 1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

FAKED
6/26/12

Line Nbr	Reference Revision ID Vendor Part Number	Description/ Mfg ID	Req Date/ Taxable	Req Qty/ Unit of Measure	Ship Method	Unit Price	Extended Price
1	92311A639	SS SET SCREW	7/18/12 Yes	200.00 Each	FedEx PI collect	\$0.6619	\$132.38
Special Inst: AS PER DWG D2747 REV. B B86827 MCMaster P/N: 92311A639							
2	6605K56	HOOK AND LOOP TIE	7/18/12 Yes	25.00 Each	FedEx PI collect	\$2.7780	\$69.45
Special Inst: AS PER DWG D3551 REV. A B87141 MCMaster P/N: 6605K56 5 PCS PER PKS							
3	8672K31	UHMW U-Channel	7/18/12 Yes	20.00 f	FedEx PI collect	\$2.2700	\$45.40
Special Inst: AS PER DWG D4287 REV. A B87848 MCMaster P/N: 8672K31							

No substitution or deviation without
consent.
Certificate of Conformity or Material
Certification required - YES NO

Change Nbr: 2

Change Date: 7/17/12



200 Aurora Industrial Pkwy
Aurora OH 44202-8087
330-995-5500
cle.sales@mcmaster.com

Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury ON K6A 1K7
Canada
Attention: Dan P

Purchase Order
PO17451

McMaster-Carr Number
7192863-02

07/17/2012

Line	Description	Ordered	Shipped
1	92311A639 Type 18-8 Stainless Steel Cup Point Socket Set Screw, 3/8"-24 Thread, 1" Length, Packs of 10	20 Packs	20
	Unit Price: \$5.91		
	Extended Price: \$118.20		
2	6605K56 Hook and Loop Cable Tie, Black Flame-Retardant Wrap Around, 24" L, 3/4" Width, Packs of 5	5 Packs	5
	Unit Price: \$13.89		
	Extended Price: \$69.45		
4	2915A43 2 in 1 Countersink, Long, 60 Degree, High-Speed-Steel, Trade Size 4, 1/8" Drill, 6" L	1 Each	1
	Unit Price: \$22.01		
	Extended Price: \$22.01		
5	2915A87 2 in 1 Countersink, Long, 60 Degree, High-Speed-Steel, Trade 4-1/2, 9/64" Drill, 6" L	1 Each	1
	Unit Price: \$23.50		
	Extended Price: \$23.50		

LNS A83				
2 - 697 - 04	04 - 31	A639	20 PK	1
3 - 125				2
2 - 501				4
2 - 501				5

Dart Aerospace Ltd

EXP
INV
NAFTA



7 lbs
6 lines

Lg

38x12x12

FW1WBP24
07/17/2012
06:26/08:57
972
Cycle 17

1140438048473

